SOUTHEAST EDITION

ELECTRICITY ON THE Farm Magazine

The weather outside may be frightful, but under the heat lamp it's delightful!—See page 8

See Electrical Equipment Product Index Page 26

JANUARY, 1960

FREE READER SERVICE

As a reader of ELECTRICITY ON THE FARM you are entitled to our readers' information service free of cost or obligation. Here is how it works.

If you are seeking information about any particular equipment or application for electricity, first check through the advertisements in this magazine. They are your best guide.

Then, if you do not find what you want, or you have a specific question regarding the use of electric power or electrically-powered equipment around the farm or in the farm home, please let us know. Just fill out and mail the coupon below, We will answer your questions to the best of our ability. Electric equipment manufacturers' names and addresses, as well as available literature, will be furnished on request.

Use the coupon . . .

Readers' Service Dept.,
ELECTRICITY ON THE FARM MAGAZINE
466 Lexington Ave., New York 17, N. Y.

Gentlemen: Please have sent to me, without obligation, information about the following items:

.....

.....

.....

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Name.....

Address.....

Name of your power supplier.....

NOTE: The more specific you are in outlining your questions, the more specific we can be in having correct information sent you.

1-60

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SOUTHEAST EDITION

ELECTRICITY ON THE *Farm Magazine*

A REUBEN H. DONNELLEY PUBLICATION

JANUARY, 1960—VOL. 33, NO. 1

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FEED SYSTEMS PAY BIG!

A bit of information came across our desk a few weeks ago that should cause some hard-pressed poultrymen to lift an eyebrow. It came from an agricultural economist at Virginia Polytechnic Institute who has analyzed feed costs and come up with the estimate that a farmer with 5,000 layers could save up to $7,500 per year by grinding and mixing his own feed.

According to his calculations, the saving boils down to roughly $31 per ton on 250 tons of concentrate. He is figuring corn at $1.30 per bushel and 40% supplement at $4.60 a hundred, plus other fixed costs.

That $7,500 saving is a pretty fair income in itself. With something like this to shoot for, it is small wonder that so many farmers, hog and cattle growers included, are putting in feed processing systems. They can pay the cost of a $2,500 system in a hurry.

CHOOSE YOUR FUSE

Out in the country where we grew up, the crossroads store was a mighty handy place. You could find a checker game in progress there almost any time, and you could buy a variety of items—horse collars, overalls, plow points, penny candies and even electrical fuses.

One thing we remember about those fuses. They usually were one size—30 ampere—and they were described as being the best because "they won't ever blow and leave you without lights."

It is true they didn't blow very often. But neither did they give the proper degree of protection to wiring and appliances. They were too big. The size of the wiring in a circuit and the size of the fuse go together, like ham and eggs, grits and gravy.

As rated by the National Electrical Code, a size 14 wire may be fused up to 15 amps and a size 12 wire, which is larger, may be fused 20 amps. These are the wire sizes most commonly used in residences.

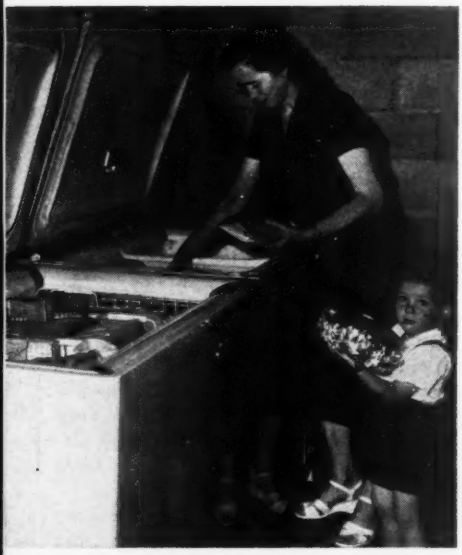
Next time you buy fuses, buy the right size!

A HELP FOR YOU

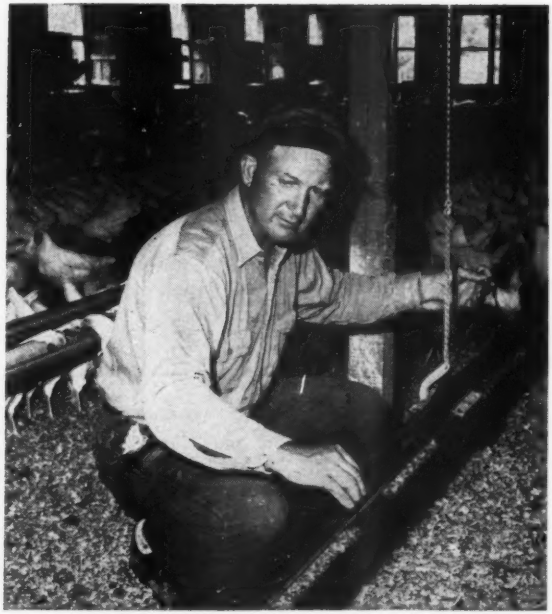
In this issue we bring to you our annual Advertisers' Product Index. Many of our readers tell us that they file this index and use it throughout the year as a "where to get it" reference for the electric equipment they need. Just thought we'd pass the idea along.

Built-in surface units and eye-level oven are part of Mrs. Carter's modern kitchen. Surface units are located so she can get to them from either side. Exhaust fan overhead removes grease, odors.

Electrical helpers make this a



Big 24-ft. chest freezer is filled with fruits and vegetables in season. Freezing, says Mrs. Carter, usually takes less time than canning.



Automatic waterers also are labor-savers. To be sure his hens have adequate, uninterrupted water supply in winter, Carter uses heating tape in V-shaped watering troughs to prevent freezing.

Washer-dryer combination has 10-pound capacity, is used daily by Mrs. Carter. Clothes come out soft, fluffy.

By ALBERT MORRIS, JR.

By adding labor-saving electrical equipment in the home and in their poultry houses, the H. D. Carters of Fletcher, North Carolina, have made theirs a family farm operation in the true sense of the word.

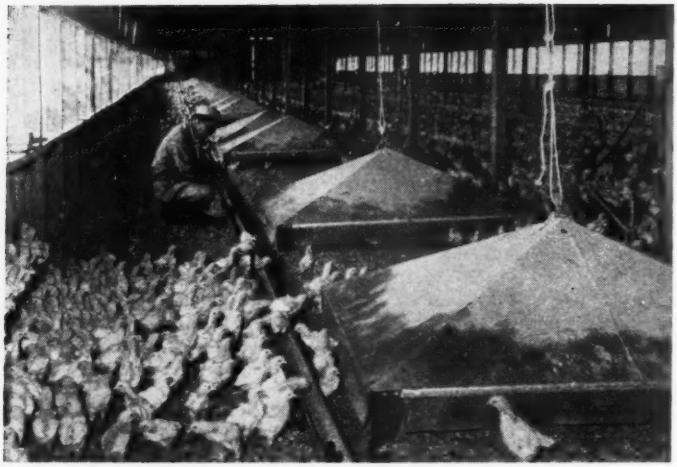
Household chores are made easier by new appliances but, equally important, these appliances save valuable time which Mrs. Carter uses to help her husband with the chickens. Mechanical feeders and waterers have made the hen-house chores easier, too. Their laying flock varies from 3500 to 5000 birds.

What it all adds up to is that the Carters have been able to get along without the laborer they once employed on the farm. Dependable electric servants have taken his place.

Mrs. Carter's silent helpers range from garbage disposer to dishwasher. None is a bigger step-saver than her combination washer-dryer which she says she uses an average of once a day. No matter how cold or rainy the weather outside, she goes right ahead with her wash, avoiding accumulation of dirty clothing or a shortage of clean clothes for the children. What's more, she says her wash comes out fluffier and softer than if dried in the sun. As evidence of this, she says she no longer has to iron work clothes or children's wear. □ □

Family Farm in Every Way

Mechanical feeders in laying houses save 15 minutes a day per thousand birds, Carter figures. Controlled by time clocks, they insure continuous supply of fresh feed.



Broiler house on J. B. Spears & Sons farm has 14 electric brooders. Units have capacity of 750 chicks, 1500-watt heating element, fan ventilation and dial temperature control.

Broiler growers compare brooding costs and find that . . .

Electric Brooders Are Economy Kings

Low prices and slim profits are causing broiler growers to take a closer look at their brooding costs. And they are finding they can brood more economically with electricity and electric hover-type brooders.

Accurate records kept on a 10,000-bird house on the J. B. Spears & Sons farm at Mansfield, Georgia, show that in a calendar year only 8242 KWHrs of electricity were required to brood 40,000 chicks. This is slightly more than .2 KWHr per chick. A separate meter was used to record the energy used by the 14 hover brooders in the house. One brood of chicks was started on a day when outside temperature dipped to 12° F.

The Spears have other houses that give them a total capacity of 55,000 broilers. But only their latest unit has electric brooders. Gas hovers are used in the others.

When chicks are 4 to 5 weeks old, Tom Morgan raises brooders to give broilers more space and permit cleaning when house is emptied. These brooders are 1000-chick capacity and have six heating elements totaling 1980 watts.

"We definitely will use electric brooders if we build more houses," declares Jack Spears, "and we will go to electricity when we replace brooders in our older houses."

Electric Brooding Costs Half as Much as Gas

Why? The answer lies in operating cost and convenience. He says brooding with electricity costs him roughly half as much as with gas. Further, there is no bother about running out of fuel or cleaning burners. And he can see no difference in the mortality rate, feed conversion or quality of the birds brooded electrically.

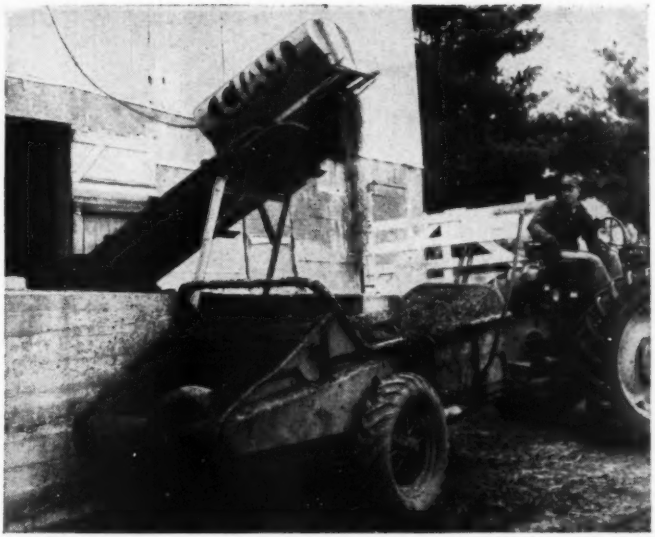
Spears believes that setting the hovers just high enough to let chicks move under and out freely is an important part of management with electric brooders. Also, he cautions that curtains should not be removed from hovers. Getting the brooder too high or using it without the curtains allows excessive heat loss and increases cost.

Alabama Grower Also Goes Electric

Tom Morgan of Phil Campbell, Alabama, was using ten gas and seven electric hover brooders until he discovered that it was costing him only half as much to operate the electric units for identical periods. So he made a complete change to electric hovers.

L. L. Kennedy of Tifton, Georgia, has had 29 electric hovers since December, 1957. In the first year, his records show that he marketed 99.5 birds for each 100 that he bought. Actually, he says delivery was 102 chicks for each 100 he purchased. He has used .3 KWHr per chick for brooding and lights.

In an industry where a saving of a fraction of a cent per bird looms ever larger, electric brooding is getting a closer look. □ □



New low cost Clay Scotsman Barn Cleaner unloading directly into spreader. You can make a trip to the field and be back in less time than you now spend cleaning by hand.

Tips on planning for a low cost barn cleaner

You'll probably install a barn cleaner sometime within the next few years. Even though you may not put in your cleaner until later, it will pay you to plan in advance. Here are some steps that you can take now to help you get the best installation at lowest possible cost.

If possible, plan to have cleaner run straight out from end of gutter instead of unloading from side of barn. This can save you up to $150 in materials and save your cleaner from unnecessary wear and load.

When running high voltage lines into barn, be sure to place terminal as close to the proposed location of barn cleaner elevator as possible. If you plan to do wiring in your barn between now and time you install your cleaner, write to CLAY for tips. Providing for adequate wiring now can save you up to $50.

If building or remodeling, check with your local milk sanitarian to make sure that gutters are wide and deep enough for a gutter cleaner. Design your layout so that gutters will run through pens. These gutters can be covered with a false cement top which can be knocked out at the time of installation. By doing this now you can save between $50 and $100 later on.

If you're building or remodeling now and planning on a cleaner later, it will pay to order parts that have to be set in cement and install them now. This will reduce your installation costs later. Also, when laying out your barn, select an elevator location that has good drainage and provides easy access with a spreader. If possible, have the spreader location on the down slope of a hill

These are just a few of the money-saving and trouble-saving steps that you can take now. For further information, send for CLAY'S FREE PLANNING BOOKLET. Gives suggested floor plans for 20, 30, 40 and 50-cow barns. This planning guide can save you many dollars and make future installation easier. Send rough sketch of present barn or of remodeling you plan. Indicate number of animals. ***Clay plan lets you put it in now...*** Under new CLAY Purchase Plan you make an initial investment of only 20% when you install your Barn Cleaner. Then, you enjoy benefits while you are paying for it. Ask your CLAY Dealer for more information or write to CLAY . . . *today*.

CLAY

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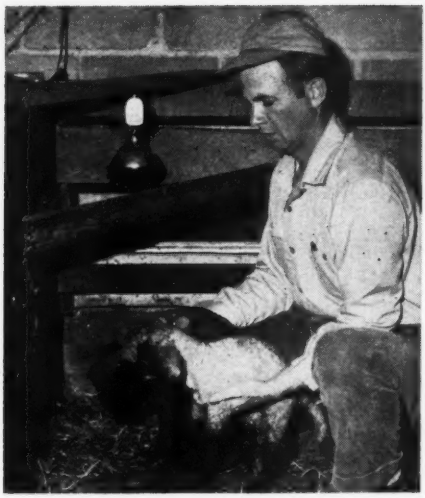
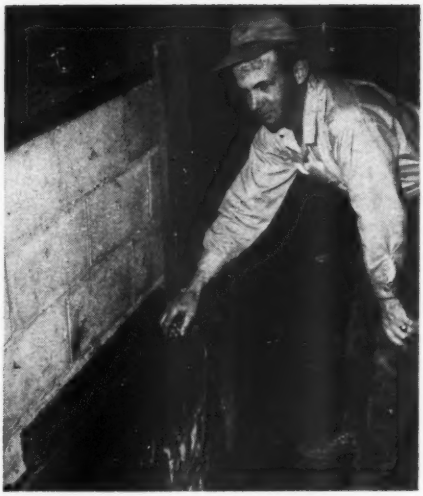


Lambs are kept warm and cozy by a 250-watt heat lamp located in each 4 x 4-ft. pen housing the ewe and her lambs.



Watering trough is kept from freezing by thermostat-controlled 1500-watt heat cable between trough bottom and wood frame.

Heat Lamps Help Grower Raise 15% More Lambs

A little extra attention and electric brooding have enabled Turner Gilmer Jr. to increase his lamb production 15%. He has 600 ewes on his farm at Castlewood, Virginia.

Gilmer has designated one of his buildings as a lamb barn. He brings his ewes from the pasture a week before they are expected to lamb. As soon as the lambs are born, they are placed in 4 x 4-ft. pens with their mothers. Each pen has a 250-watt heat lamp suspended about 2 feet above the litter. The lamp is located in a corner of the pen and a barrier is placed across that corner to keep the ewe from getting against it.

Lambs are kept in the individual pens from one to seven days. The important thing, says Gilmer, is that they are strong and healthy and know their mothers before they are turned out.

Heating Cable Prevents Freezing

The Virginian uses a 110-ft. watering trough to serve all of the pens. The trough is a standard 4-inch rain gutter set in a wooden frame. A float control keeps it half-filled. To keep water from freezing and insure a continuous supply, Gilmer uses a 1500-watt length of heating cable inserted between the trough bottom and the wooden frame. A thermostat turns the heating cable on when the air temperature drops to 35° F. Gilmer says he has had no trouble with water freezing even in zero weather.

With his large flock of ewes, he has arranged his barn so that a shepherd is present to look after the new lambs. He has a shepherd's room midway of the barn and at an elevation from which the entire barn area can be seen. A 1650-watt space heater is used in this room. Also in it is a 6-gallon electric water heater. The shepherd mixes canned milk and warm water as necessary to feed the young lambs.

Before he established the lamb barn, Gilmer says he frequently picked up weak lambs and wrapped them in blankets or employed other methods to keep them warm. Even so, the best production he could expect was about 1.1 lambs per ewe. With his lambing barn, his crop last year climbed to 1.3 lambs. □ □

HERE'S A HOTBED BUILT FOR MECHANICAL CLEANING

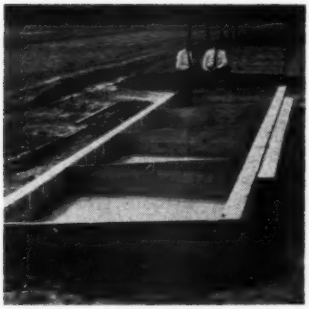
A general purpose electric hotbed that can be cleaned mechanically is being used successfully at the Georgia Coastal Plain Experiment Station, Tifton.

Agriculture engineer James L. Shepherd says the bed is 8 feet wide, and has a 3-inch reinforced concrete slab so that a tractor with blade and scoop can be used for placing and removing bedding material for each plant crop.

North and south sides of the bed are made of cement blocks with the north side one block higher so that the bed faces south to take advantage of the sun. Ends and partitions are of removable frame construction.

The bed has a 3-inch gravel base, on top of which is 2 inches of sand. Lead-sheathed soil heating cable is laid uniformly over the sand to provide about 8 watts per square foot. Another ½ inch of sand was placed to just cover the cable before the concrete slab, reinforced with old hog wire, was poured. The cable is underneath the concrete and not bonded.

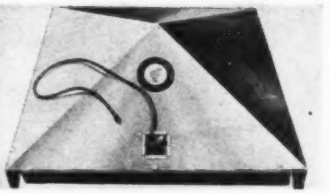
Shepherd says an 8 x 8-ft. electric hotbed can be expected to yield 12,000 to 15,000 sweet potato plants. □ □



Hotbed is 8 feet wide inside, has removable frame ends and partitions. Entire bed slants south to get most sun.

Cable is covered with sand, wire, concrete. Concrete slab had no significant effect on electrical usage to heat bed.

CUT Brooding Costs with BAILEY'S *Electric* Brooders



Poultrymen in 10 southern states have cut their wintertime brooding costs to ½ cent or less than ½ kilowatt hour per bird by using Bailey's Electric Brooders.

Performance like this is no accident. Poultrymen and agricultural and electrical engineers designed Bailey's Model 750. The rigid 72 x 72 inch hover has ½ inch of fiberglass insulation. Temperature is automatically controlled by dial setting. Unit comes fully equipped with pilot light, attraction light, 8-foot heavy duty cord. 750-chick capacity, 1500 watts, 115-120 volts.

Bailey's electric brooders were designed from the start to be the best!

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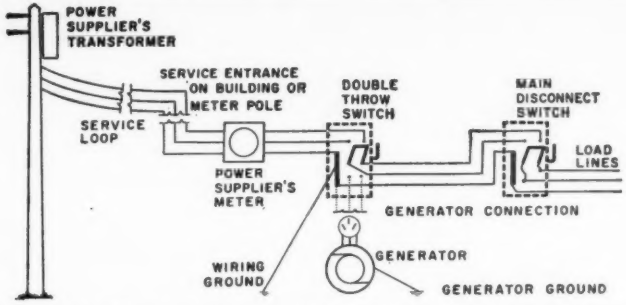


Recommended wiring for emergency stand-by generator. Leads from switch to generator should have rating 115% of generator size. **Be sure to check local wiring regulations regarding type of double-throw switch required in your area.**

HOW TO USE A STAND-BY GENERATOR

Every day people buy insurance against occurrences they hope will never happen such as sickness, death, accidents, fire, etc. Electric power failure is another incident everyone hopes won't happen. But sometimes Mother Nature gets out of hand, and the result is no joking matter to electrically-dependent farmers.

Many careful operators are taking out a different type of insurance policy against power outages by buying tractor-driven stand-by generators. These generators may be mounted on trailers or platforms and driven by PTO or they may be mounted on floor bases or platforms fastened to the front end of tractor and driven off the belt pulley.

By having this "insurance policy" ready to put into operation at a moment's notice the electrified farm or farm home need not suffer undue inconvenience in the event of an outage.

How to Select a Generator

To figure generator size, decide just what your total essential power needs will be in case of an outage, as well as the largest motor to be operated. Add up your essentials' wattages and then leave some extra capacity as leeway for expansion. Never let the total load exceed the capacity of the generator.

When starting up the generator, make sure it registers, under no load, 250 volts for a 115-230V unit, or 125 volts for a 115V generator. Disconnect all equipment before switching to your stand-by generator. Then switch motors on one at a time, largest first, without load if possible.

Check Voltage Carefully

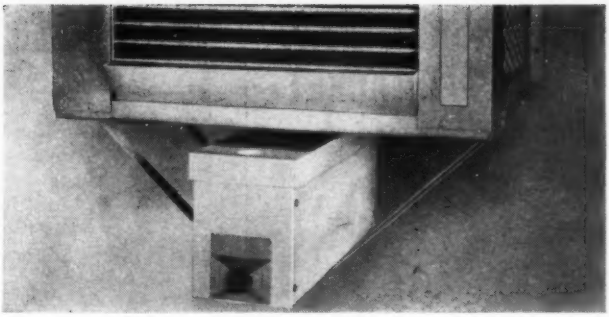
Since tractor governors allow slight variance in motor speed, check the voltmeter once the load is connected to make sure the generator has not fallen below normal operating voltage. If it has, either speed up the tractor or disconnect some load, because both generator and motors may be damaged by incorrect voltage.

If you use a stationary tractor-driven plant, set up a floor guide to locate the tractor quickly and insure correct alignment with the generator. This may save you some floundering in the dark during a night outage.

Use Double Throw Safety Switch

When installing a stand-by generator, adhere to the National Electrical Code and/or any other regulations governing wiring practices in your area. It's a good idea to consult with your power supplier on installation—some have special regulations regarding generators.

The National Code requires use of a double-throw safety switch to connect the generator to any electrical lines. This is for dual protection. Not only will it protect your generator and equipment should the power go on again suddenly, but more important, it could save a repair lineman's life. Generator current, should it feed back into the transformer on the pole, would automatically be stepped up to 7200 volts—a current deadly to any lineman working on a broken line in the area. Have your power supplier inspect your generator installation to make sure it's properly wired. □ □



Cooler and humidifier make an unbeatable egg room team. Moisture from humidifier is injected into cooler's air stream and blown over the eggs.

Egg Room Humidifier Keeps Quality High

By HAROLD R. WAKEFIELD

Are your eggs being downgraded because of weight losses and large air cells? Chances are that you may be losing grade during the cooler months of the year, even if you have a modern egg room with a good cooler that has a large cooling coil and high air flow.

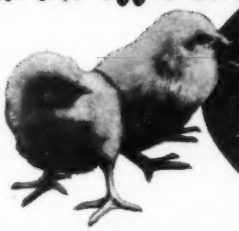
During the cool season your cooler operates less and there is not as much moisture in the outdoor air that fills the room when the door is opened. The chief reason is that the dry outdoor air becomes even drier as lights and egg heat warm it. This dry air is hungry for moisture—takes it from the eggs and dries them out. For example, on a 25°F. day, even with a wet 100% outdoor humidity, the humidity inside the room would drop to a dry 38% if it warmed up to 50°F.

To control this seasonal moisture shortage, a new type humidifier has been designed specifically for egg-holding rooms. It mounts under the egg cooler, plugs into a 115-volt convenience outlet and easily taps into a water line. The dial is set for the season and climate and the required amount of moisture flows into the room in vapor form to maintain a 70 to 80% humidity.

Because the moisture enters as a vapor, there are no large droplets to wet eggs or cartons and there are no wicks to become encrusted with lime and dirt.

This humidifier, combined with a modern well-designed egg cooler, now makes a complete egg-conditioning package that functions through all seasons to guard egg quality. □ □

Brood your chicks economically with an efficient

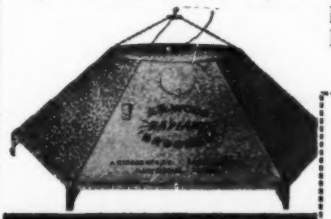


A. R. WOOD
Radiant Electric
BROODER

If it's economical brooding you want (and who doesn't these days), take a look at the A. R. Wood Radiant Electric Brooder.

Six individual durable heating elements in the 8 ft. size, distribute gentle, penetrating radiant heat, evenly and effectively. (5 ft. and 6 ft. sizes also available). Sensitive, two-stage thermostat control absolutely eliminates hot spots and crowding, holds the temperature you set! You get up to 26% more brooding capacity.

Whether you are raising chicks for layers or for broilers, you'll get a healthier brood if you use A. R. Wood Brooders . . . most popular from coast to coast — proven by *sales records!*



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I have_____birds.
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You'll Save Money with RED JACKET Automatic Water Softener

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... for PLUMBING REPAIRS

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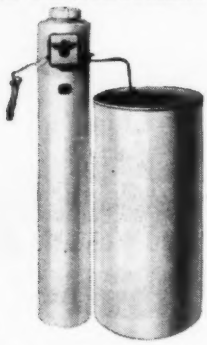


Soft water on the farm is not only a personal luxury, but an important economy. It saves soap for laundering, dishwashing and cleaning dairy utensils. It is also an insurance against costly plumbing and heating repair bills that must be paid to remove lime-encrusted plumbing units.

A Red Jacket Automatic Water Softener gives you this money-saving soft water at an amazingly low investment cost. Its a water softener that eliminates the bothersome chore of regeneration that most units require weekly or more often. Combined with the low price are advanced engineering features not found in most similar units. Get the complete details from your nearest Red Jacket dealer or write to the factory.

RED JACKET MANUFACTURING CO.
Davenport, Iowa

WC-229

Air compressor operated by ¼ hp electric motor is used for spray painting. Larews' aim is to get maximum life and peak performance from all equipment through on-farm repair and maintenance.

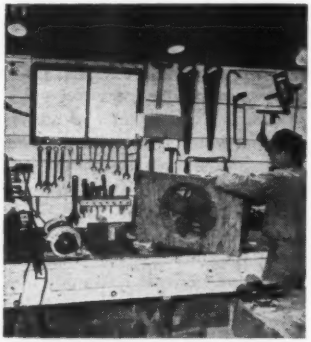
Protect your investment . . .

A Good Shop Keeps Your Equipment in Good Shape

Investments in farm machinery keep climbing. Each time more money is paid out for equipment, there is more interest in protecting the investment —an interest that is reflected in expansion of shops on some farms and in the establishment of shops on others.

Robert and Wilbur Larew, a father-son team at Greenville, West Virginia, have established a 13 x 26 foot shop. It is sort of an unwritten law on their farm that every piece of equipment which has only seasonal use is given a thorough cleaning and painted if it needs it before going into storage. Other equipment is cleaned and serviced at regular intervals.

The shop is wired for adequate lighting and for all electrical tools ranging from a 230-volt single phase welder to portable saws and drills. All outlets for tools are polarized.



Floodlamps illuminate workbench in Larews' shop. Note orderly arrangement of hand tools and convenient location of receptacles for using electric tools.

RESEARCH NOTES

By J. P. SCHAENZER

Beef calves born per 100 cows have increased from 75-80 in 1925 to 85-90 in the last few years.—*USDA, H. T. Breimyer*

Anemone coronaria grown in a night temperature of 50-55° F. produced better flowers than those held at 60-65°. Production ceased at 68° and over.—*Univ. of Massachusetts, G.B. Goddard*

Mow hay drying used from 30 KWHrs in good weather to 90 KWHrs in bad weather, and averaged about 50 KWHrs per ton of dry hay.—*Pennsylvania State Univ., W.L. Kjelgaard*

Country hams without mold and not salty can be produced if properly cured, stored at 65° F., 50-70% humidity, and in an air flow of 35 feet per minute at the surface.—*North Carolina, T.N. Blumer*

Milk stored in bulk tanks showed no increase in rancidity or bacterial count with warm milk added and a blend temperature up to 60° F.—*Cornell Univ., R.P. March and P.J. Vandemark*

Beans treated with an electron beam generator and then infested with weevils were free of insects 43 days after infestation. —*Michigan State University*

Ice cream can be stored satisfactorily for about one month in the home freezer if firmly frozen when bought and then held at zero or below.—*Univ. of Minnesota, Thomas and Combs*

An electric device has been developed to detect blood in eggs of all shell colors and automatically separate them from the others at a speed of 20 cases per hour.—*USDA, J.D. Rowan*

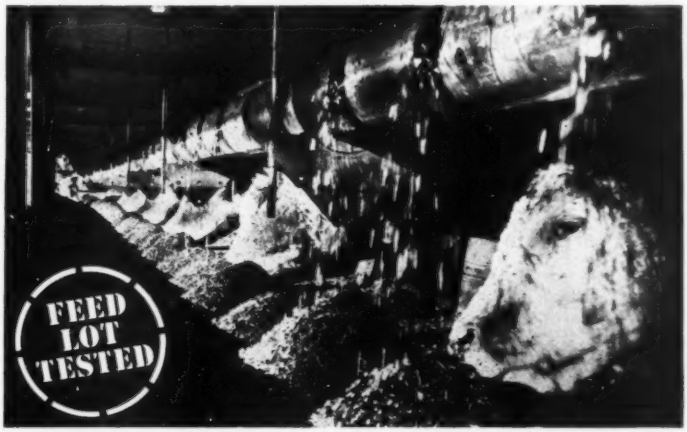
A silo unloader saved about 20 minutes of work per day when feeding 39 dairy cows and young stock.—*Wisconsin Electric Research Farm*

Gibberellin treatment of several varieties of chrysanthemums improved significantly the shape of the flower sprays.—*Univ. of California, Berkeley*

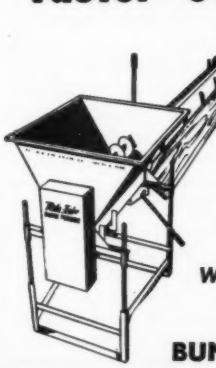
Maintaining the desired temperature and humidity in a 14-pen farrowing house from Nov. 1 to March 1 took 275 KWHrs.—*Univ. of Missouri, K.L. McFate*

Using mechanical feeders, allow 2½ inches of hopper feeding space per laying hen for mash and 2 inches for crumbles.—*Washington State Univ.*

Limited research with dairy heifers indicates that grinding high-moisture shelled corn may boost its feeding value as much as 12%.—*Illinois, K.E. Harshbarger*



Roto Tube distributes feed faster-evenly-automatically



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Part 3 of a "total coverage" series on . . .

V-belt and pulley drives are, by far, the most popular for farm use. This combination of belts and pulleys includes jackshaft (right) to further reduce speed.

FARM ELECTRIC MOTORS

How to hitch your motor to its equipment

By ART RADWIN and ALBERT MORRIS, JR.

Attaching an electric motor to its load requires a little know-how. The wrong connection could put the same strain on the motor that lugging a feed sack by its drawstring would put on you.

There are three main ways of connecting motors to their loads —by belt-and-pulley systems, direct-drive, and gears or gear-motors. The most popular by far is the belt-and-pulley, since it is versatile, flexible, inexpensive and readily available.

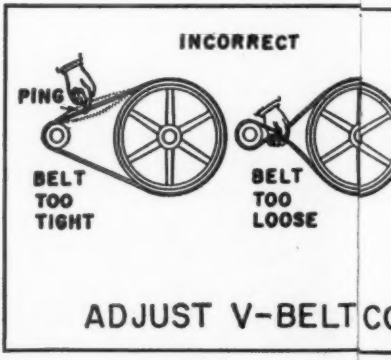
Because most farm electric motors run at speeds between 1725 and 1750 rpm, and farm equipment is usually run at much slower speeds, some sort of speed reduction is needed. A belt-and-pulley system can do this job well, but there are different types and sizes of pulleys and belts, and an intelligent choice must be made before the motor can do its job.

The most popular of all motor couplings is the V-belt–V-pulley. V-belts stay on pulleys better than flat belts, are easier to install and V-pulleys can be mounted closer together than flat ones. V-belts are also available in almost any well-stocked hardware or electrical store. The most important choice, using this system, is what size pulley to use on the driven equipment to get the right speed.

To find this, first check the motor speed from the nameplate, then the most desirable speed for the driven equipment either from the nameplate or the manufacturer. Multiply the motor pulley's diameter by the motor speed and divide by the speed of the driven equipment to get the driven pulley's diameter. If you don't like arithmetic, the accompanying chart will give a quick, fairly accurate answer, providing the motor speed is around 1750 rpm.

Too small a pulley on the

Pulley Selection Formula: $DR = dr$. (D)=diameter of motor pulley, (R)=rpm of motor, (d)=diameter of driven pulley, (r)=rpm of driven equipment.



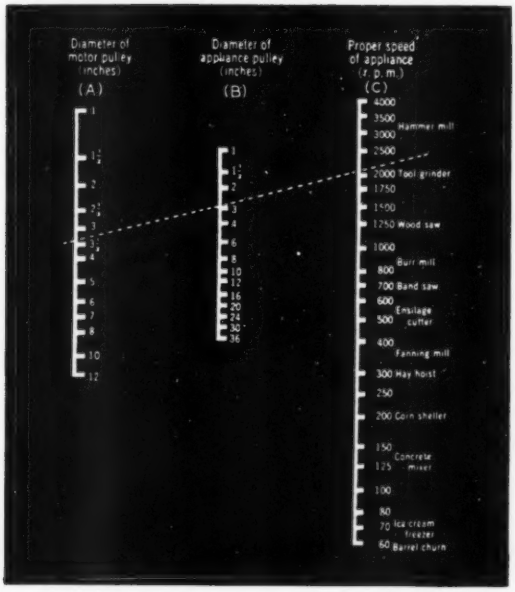


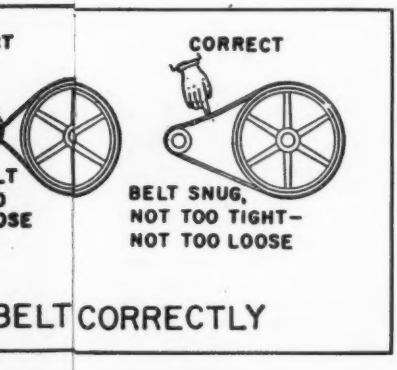
Table 1—PULLEY SELECTION CHART: If correct speed of appliance is known, lay straight edge from that point on line "C" to desired motor pulley size on line "A". Point where line intersects line "B" is approximate size of appliance pulley.

motor will often cause excess belt slippage. Avoid using a pulley less than 2 inches in diameter on motors smaller than ½ hp. On larger motors use a pulley 3 inches or more in diameter. For any equipment running less than 200 rpm a jackshaft is necessary, to limit pulley sizes to 12 inches, the largest convenient to work with.

Using multiple-step pulleys is an inexpensive method of changing speeds of driven machines. The belt is simply slipped from one groove into another to vary speeds. Adjustable-groove pulleys do the same job. Multiple V-belts are used when the load is too large for a single belt.

To get belt length, tie a string around the drive and driven pulleys as the belt will be, then cut it, and its length will be the belt length. If it doesn't matter where the motor is placed, a belt length of seven times the diameter of the largest pulley will do the job.

The type of belt may be selected from the accompanying table, and pulley grooves should match belt section (A, B, or FHP). Always make sure to get a pulley with a bore that exactly matches the shaft on which it



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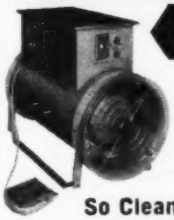

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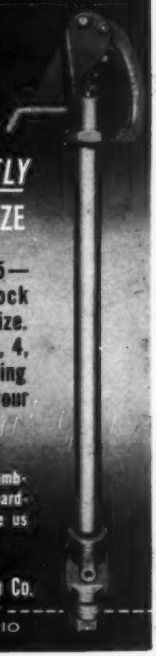

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will go. Pulleys should be aligned correctly to avoid undue bearing and belt wear. Alignment can be checked by laying a straight edge against the outside pulley surfaces.

Flat Belt and Pulley

Although they are on their way out, flat belts and pulleys are still used occasionally with electric motors on farms. For most purposes they are inferior to V-Belts. Sometimes a V-belt is used to drive a flat pulley, and this system, called "V-flat", is satisfactory when the flat pulley is big enough so that the large contact area prevents slippage.

Direct Drives

Direct drives between motor and equipment are often tricky. They can only be used when the driven equipment runs at same speed as motor, and the shaft alignment must be close to perfect or there will be undue bearing strain. Least expensive of direct drives is the hose and clamp, in which a section of ordinary hose is clamped onto the drive and driven shafts. It is flexible and protects bearings, but is not sturdy enough for use on motors over ½ h.p.

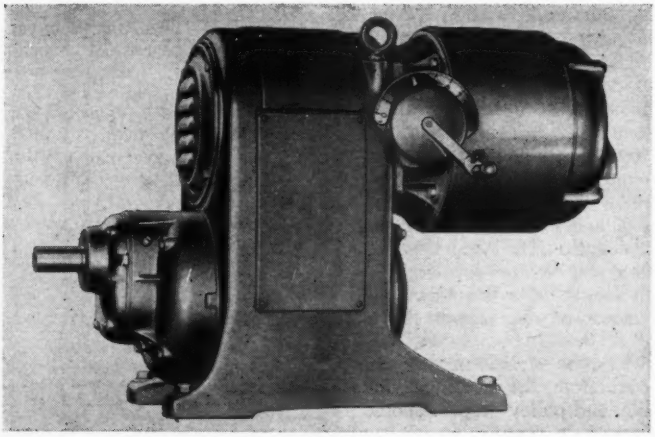
TABLE II
Number and Type of V-belts Recommended for 1750-rpm Motors

Diam. of Motor Pulley in Inches	Size of Motor Horsepower							
	½ or smaller	¾	1	1½	2	3	5	7½
2	FHP*	FHP*						
2½	FHP*	FHP*						
3	1-A	1-A	1-A	2-A	2-A	3-A	5-A	8-A
3½	1-A	1-A	1-A	2-A	2-A	3-A	4-A	7-A
4	1-A	1-A	1-A	1-A	2-A	2-A	3-A	5-A
4½	1-A	1-A	1-A	1-A	1-A	2-A	3-A	5-A
5	1-A	1-A	1-A	1-A	1-A	2-A	3-A	4-A
5½	1-A	1-A	1-A	1-A	1-A	1-B	2-B	3-B
6	1-A	1-A	1-A	1-A	1-A	1-B	2-B	2-B
7	1-A	1-A	1-A	1-A	1-A	1-B	2-B**	2-B
8	1-A	1-A	1-A	1-A	1-A	1-B**	1-B	2-B

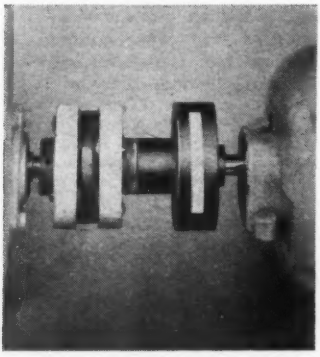
* FHP—(Fractional horsepower) a belt designed for small pulleys and small motors. Most commonly available in ⅜-inch width but also available in ½- and ⅝-inch widths.
** The same number of type A belts could be used instead of type B.

The rigid flange coupling is, as the name implies, rigid, and shafts must be in perfect alignment or bearing wear will result. The flexible shaft is mainly for portable tools such as buffers, drill chucks, etc., and is good for use in irregular angles with motors up to 2 hp.

Gearmotors do an excellent job of speed reduction of electric motors. They combine motor and adjustable gearbox in one assembly. Gearboxes are also available that may be belted to motors. They incorporate different gear ratios to provide speed reductions similar to automobile gearshift transmissions. *Next month:* **Motor Protection and Wiring.**



Gearmotors are useful where frequent, fast speed changes are needed without disturbing motor position. They have a wide range of speed variation—the unit pictured above will turn shaft at speeds from 2 to 10,000 rpm.



Clutches for electric motors allow motor to start load smoothly without sudden acceleration and also protect motor should equipment become clogged or otherwise slow motor down. Unit above uses clutch (black part) hooked to flexible coupling to protect bearings.

WHAT'S NEW

4-H Members Idea Book

This 98-page booklet, published for the 4-H Electric Program by the Westinghouse Electric Corp., is chock full of how-to-do-it ideas for electric projects, as well as useful information on selection, maintenance and use of electric equipment. It is available free to all 4-H members, but must be procured through the State 4-H Club or Extension Offices. Bulk shipments will be made to any location requested by the State 4-H Office.

Ductless Range Hood

Smoke, grease and odors are all eliminated by this new range hood by NuTone, Inc., Cincinnati 27, Ohio. The ductless unit

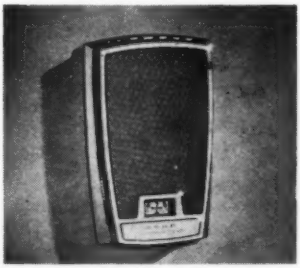
uses a 4-speed fan to pull air first through an aluminum filter to degrease it, then through a glass filament filter to remove smoke, and finally through activated charcoal to deodorize it. The hood extends 21 inches from wall.

Swine Equipment Plans

Published by Midwest Plan Service, Iowa State University, Ames, Iowa, this 57-page booklet lists sketch plans for a wide variety of hog-raising equipment. Included are detailed plans for building such items as auger installations, brooders, farrowing stalls, creep feeders, etc. Comprehensive chart lists motor size and type requirements for various elevators and conveyors, as well as wire sizes needed. Cost: $1.00. Copies may also be purchased from Farm Electrification Extension Agricultural Engineers at respective land grant colleges in Illinois, Indiana, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin and Alaska.

Electric Heat Thermostat

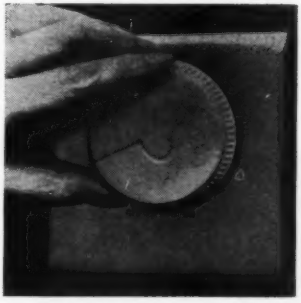
A newly-designed electric-home-heat thermostat is now available from Penn Controls,



Inc., Goshen, Indiana. Styled to harmonize with both modern and traditional decors, the thermostat has a click dial on which each click adjusts the temperature one degree. A removable decorator panel may be painted to match surrounding color scheme if desired. □ □

Adjustable Light Control

A 200-watt capacity adjustable light control is now being made by Superior Electric Co., Bristol, Conn. The "Luxtrol WBD200" is an adjustable transformer which controls incandescent or fluores-



cent light levels from dark to full bright smoothly and steplessly. The unit gives flexibility to multi-purpose rooms where bright light is needed for reading or sewing and dim light for entertaining or viewing TV.

Farm Electrification Textbook

"Using Electricity on the Farm", by J. Roland Hamilton, 397 pages, published by Prentice-Hall, Inc., Englewood Cliffs, N.J., $6.65. Ideal text for high school or college vocational agricultural courses. Useful reference for field workers in farm electrification. Contents include basic electrical background and principles plus intelligent selection, use and care of farm electrical equipment. Over 300 illustrations.

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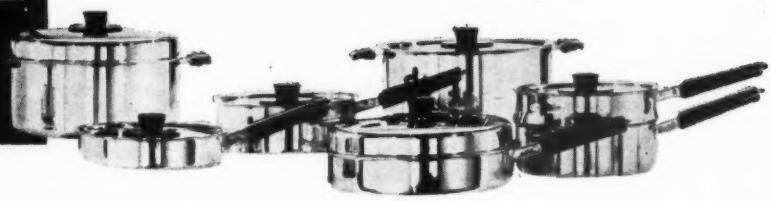
THE FARM HOME

BY RUTH GAFFNEY

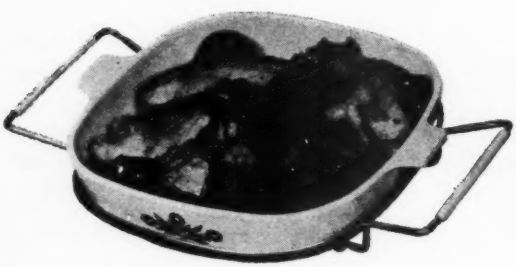


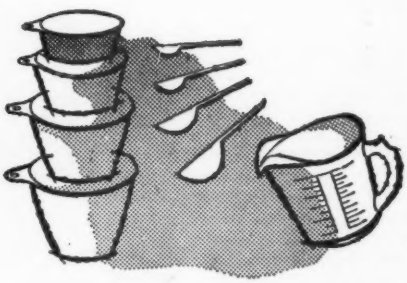
Good Utensils = Good Cooking

Ingredients in today's recipes are carefully balanced. For this reason a cooking utensil of the right size—coupled with carefully measured ingredients—may mean the difference between a dish that merits a fanfare rather than a failure. Many new utensils are so handsome and attractive we want to decorate our kitchen with them. And we can keep them that way when we use a clean fuel, such as electricity.

A few buying points to consider when shopping for new kitchen utensils are:

- Keep in mind that, for best results, all utensils for cooking on top of the stove should have straight sides, be flat on the bottom and have tight-fitting covers. This is important because, if a pan is bent or warped, it will not absorb heat well; a tight-fitting cover keeps the heat where it belongs—inside the pan.
- What the utensil is made of is important. Choose a material which absorbs heat and spreads it evenly over the utensil. Copper and aluminum are among the best for this purpose. That is why you will find utensils made of stainless steel (for its easy-to-clean qualities), clad on the bottom with copper or aluminum to give best results.
- Don't choose a utensil that is too light in weight. While you may save a small cost in the initial purchase, you run the risk of frequent spoiling of good food. Heavy metal or glass utensils contribute to good nutrition and allow more flavor to remain in the food.
- Baking utensils for oven cooking may be obtained in either metal or glass. To get that lovely, even golden brown we all love to see on cakes and breads, it is necessary to use shiny aluminum or glass pans. Cookie sheets should be made of shiny aluminum because they are usually used with high temperatures. Blackened or darkened pans absorb heat, causing uneven cooking and burning.
- Consider some of the many new utensils in which you may both cook *(below,* left) and take immediately to the table. Saves dishwashing, keeps food hotter when served.
- Standard measuring cups—graduated ones for dry ingredients—and measuring spoons insure a successful recipe.





Sit down to your ironing at an automatic electric ironer. It will be easier, faster with admirable results. This one folds away when not in use.

How Do You Do Your Ironing?

We have all experienced the great labor-saving that the new so-called "no-iron" fabrics have meant in the weekly laundry. But aren't you a little surprised at how much ironing you still have to do, in spite of all these wonderful garments? Is there anyone among us who will not agree that ironing is the household task we like the least? We think not.

One answer for this problem seems to be the automatic electric ironer, an appliance that has been around a long time. Many homemakers say they couldn't get along without them. It is ideal for the often monotonous chore of pressing sheets, pillowcases, tablecloths, napkins, handkerchiefs, men's and boys' slacks.

Some users also become adept at ironing shirts, blouses, little girl's frilly dresses, ruffled curtains—no garment seems too complicated. Among the advantages of using an automatic ironer are its real saving of time and effort. This has been conclusively proved by experts in complicated and technical tests. Couple with this the satisfaction of beautiful results and you'll think twice about your next session with the hand iron. No special wiring is required for the use of the ironer; just plug it into any 110-volt wall plug.

What An Electric Ironer Can Do . . .

To obtain satin smooth results in ironing, you must have right amount of heat, pressure and friction. When using a hand iron, heat is controlled by thermostat, *you* furnish pressure and friction. Use of automatic electric ironer gives you enlarged heat surface, which means you iron faster; pressure and friction are furnished by press of a lever, thus relieving *your* muscle power.

Efficient use depends, not upon individual proficiency, but upon practice. When buying, insist upon a detailed practice demonstration so you will be instructed in the proper use of the ironer. Try simple flat linens first, then the more difficult items after you have the "feel" of the operation of the apliance.

Laundry should be dampened less because of the rapid rate at which articles can be put through automatic electric ironer.

There are a number of different types from which to make your choice. Portable type can be placed in any convenient spot; you can iron in different areas of the house as need demands. Built-in type follows trend for "disappearing" appliances to give custom look to kitchen and utility room. Swing ironer up-and-out to level for sit-down use; when not in use it swings down into cabinet.

Ironers today have thermostats similar to those on a hand iron; you can regulate it from a low temperature to iron man-made fabrics, to high temperature for heavy linens.

LAUNDRY SPACE PROBLEMS?

Convenience and flexibility of a separate washer and electric dryer are contained in this one appliance, which combines the two operations—good news when space is limited.

Why Not Consider A Combination Washer-Dryer

IF YOU HAVE NOT been able to enjoy the convenience of automatic laundry equipment in your home because of space limitations, you might consider the newest addition to the home laundry. It is an appliance that combines both washing and drying in one cabinet and has a number of unique advantages, such as:

Space saving—you can put one appliance in the space of two. Widths vary among different makes but you could get one to fit in a space from about 27 to 33 inches wide and about 25 to 28 inches deep.

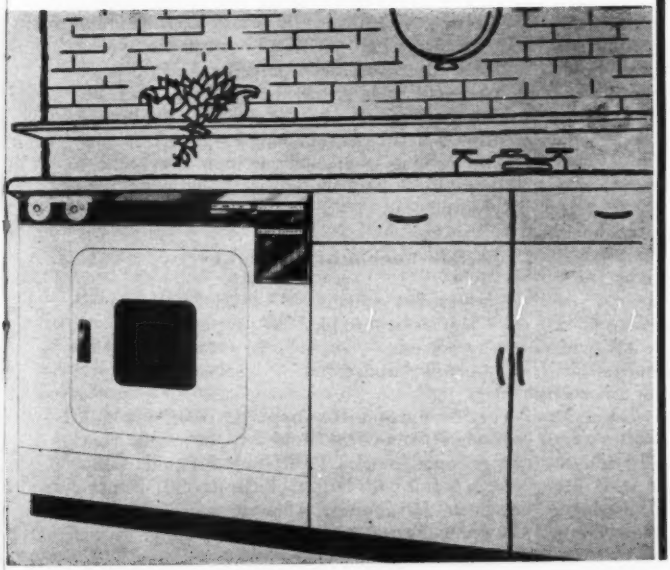
Fully automatic—you do not have to be around to transfer clothes from washer to dryer. All models have such convenience features as choice of wash cycles for different types of laundry, including wash-and-wear, cotton and heavy linens; hot, warm and cold water temperature settings. Newest models have dispensers for detergents, fabric conditioners and bleaches. These laundry aids are added to the wash water automatically when required in the washing process. Dryer also has setting for various lengths of drying times and temperature settings from warm to hot.

Left, *combination washer-dryer installed under counter in kitchen is good, compact idea.*

Economy—it is possible for a combination washer-dryer to cost less than two separate units. For instance, if you buy an automatic washer with the convenience features mentioned above, and a dryer with flexibility in temperature settings, you will pay more for the two appliances than you would for a combination washer-dryer with the same flexibility of use.

Other advantages—it is possible to use this appliance for washing only or drying only. No venting is required because lint suspended in interior of machine during drying cycle is removed and pumped down drain. Plumbing connections are so arranged that cabinet may be installed flush to the wall.

Water consumption between various brands may vary as much as 12 gallons, so it would be well to check on this feature. Most models have built-in water heater to raise temperature to proper degree (this does not take the place of a water heater but is designed to act as a safeguard in case temperature of water coming into machine is not hot enough).



Points To Consider When Buying

YOU CAN BUY a free-standing model to put in utility or bath room. This compact appliance is also available in an under-counter model to fit into kitchen or other area. A number of different colors are available to match—or blend with—your favorite color scheme.

Size of load varies from 8 to 10 pounds, depending upon make and model. Interior size of machine is large because of drying capacity. Don't add more clothes than instruction booklet calls for; you may delay drying and clothes will wrinkle badly.

All machines are tumbler action, or front-loading type. At least one make weighs size of load and determines amount of water needed—less water for small load, more water for large load.

All combination washer-dryers require 230-volt, 3-wire connections.

Most makes have maximum wash-cycle of 15 minutes (not including rinses), maximum drying time 100 minutes.

Check on force of spin action (revolutions per minute) to take out water. Amount of water extracted has bearing on length of time required to dry clothes.

Fruit Desserts

YOU CAN MAKE desserts both tasty and healthful with fruits abundantly available at this time of year. We think the recipes given below are easy to assemble—just turn on the oven and put them in!

Meringue Apples

- 8 medium cooking apples
- ½ cup sugar
- ¼ cup hot water
- 2 tblsp. butter
- ¼ cup fresh orange juice
- ½ tsp. grated lemon rind
- 3 egg whites

Peel, quarter and core apples; place in 2-quart casserole with ¼ cup sugar, hot water and butter. Cover and bake in oven (375° F.) 30 minutes, or until apples are soft. Mix orange juice with lemon rind, pour over cooked apples. Beat egg whites until they stand in soft peaks; gradually add remaining ¼ cup sugar, beat until stiff. Reduce oven to 325° F. Spread meringue over apples and bake 15 minutes. Serve cold. Serves 6.

Banana Parfait

- 1 egg yolk
- 2 tblsp. lemon juice
- ½ tsp. grated lemon rind
- ¼ cup sugar
- ⅛ tsp. ground mace
- 1 egg white
- ½ cup heavy cream, whipped
- 2 bananas

Beat egg yolk, lemon juice and rind until slightly thickened. Add 2 tablespoons sugar and mix well. Cook over low heat until mixture thickens (3 or 4 minutes), stirring constantly. Stir in mace and cool. Beat egg white to soft peaks; gradually add remaining 2 tablespoons sugar and beat until stiff. Fold into cooled mixture; fold in whipped cream. Fill parfait glasses or goblets, alternating layers of mixture with sliced bananas. Garnish with sliced bananas and sprinkle of ground mace. Chill. Serves 6.

Pineapple Upside-Down Cake

- ⅓ cup butter
- 1 teaspoon corn syrup
- ½ cup brown sugar (packed)
- Drained pineapple slices
- Walnut halves
- Yellow cake mix

Use 9″ square pan or heavy 10″ skillet. Melt butter, add corn syrup and brown sugar and heat to boiling, stirring constantly. Remove from heat. Arrange pineapple slices over syrup. Fill spaces with walnuts. Top with half the batter made from cake mix, prepared according to directions on package (use remainder for cup cakes below). Bake as directed on package but allow 5 to 10 minutes longer. Invert at once on serving plate, leaving pan over cake a minute or two. Serve warm with whipped cream.

Apple-Cocoanut Cupcakes

- ½ teaspoon cinnamon
- ¾ cup moist shredded cocoanut
- 1½ cups pared, cored, coarsely chopped apples
- ½ package yellow cake mix

Add cinnamon to prepared cake mix (see recipe above). Fold in cocoanut and chopped apples. Fill each greased muffin tin ⅔ full with batter. Bake in 350° F. oven 20 to 25 minutes. Allow to cool 5 minutes; remove from pan, cool thoroughly. Serve with whipped cream. Makes 12.

How Much Does Installment Credit Cost?

Shop around if you're thinking of borrowing money

At the Annual National Agricultural Outlook Conference of the USDA in Washington last November the question of why installment credit costs vary was discussed. It was pointed out that rates can differ as much as 7 to 36 percent per year. How rates are arrived at is confusing for the consumer, but it is important for us to know the *true* interest we are paying.

Some reasons for this wide variance in interest rates are:

Purpose for which credit is used. Individual lending agencies may charge different rates for different types of loans—whether personal or secured. What you are going to use the money for also has a bearing. Example: true interest for automobile loan can be 7.5 percent, to modernize a home 7.8 percent. Unsecured personal loan for paying medical expenses, taking a trip, etc., can be 14 percent. Large mail-order houses also vary interest rates: 12.6 percent for purchases to modernize home, 14.6 percent to buy furniture or appliances, 18 percent for "miscellaneous" items.

Size of loan also may have a bearing. For instance, it was found that some consumer finance companies may charge 35.6 percent for a $500 loan, 15 percent for a $1,000 loan.

If you're thinking of taking an airline "package" vacation tour, consider this: when you pay installments within 20 months, *true* interest charge can be about 21.6 percent for a $260 vacation, 18.9 percent for an $800 trip and 16 percent for a $2,500 jaunt.

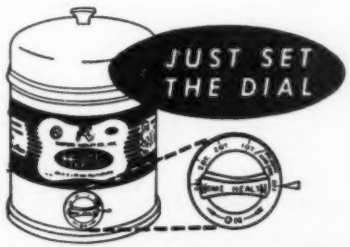
Length of repayment period. We might overlook fact that borrowing money over a long term, rather than a short term, makes a big difference in actual *dollar cost*. If you borrow $2,000 to buy a car and repay the loan in 12 months, you may pay 7.5 percent interest, or $82. If you extend the time to 36 months, you pay 10 percent, or $323—a difference of $241!

Amount of "extras" in contract. These "extras" may be insurance (which can include not only usual liability and collision, in the case of an auto purchase, but personal accident, bail bond coverage, health, hospital and ambulance insurance, and credit life insurance). Some lending agencies add charges for such miscellaneous expenses as filing, notary and documentary fees.

Certain types of car insurance are highly desirable (and required by law in some states) but perhaps the same policies could be obtained from another source at a lower rate; or your present regular coverage may be sufficient without extra expense. This may well be true in borrowing for other types of purchases.

Because interest rates are climbing, and are likely to go even higher, it is a wise consumer who shops for credit. Here are a few suggestions:

- Find an institution that deals with good credit risks—those who deal with poorer credit risks must charge higher rates.
- Lower rates may be obtained if you have good collateral.
- Cost of credit investigation and bookkeeping are about the same for a small loan as for larger. Consequently, a higher rate is frequently charged against smaller loans to cover higher rate of overhead costs.
- Pay back in as large payments as possible – smaller payments mean more risk, higher interest.
- Perhaps it will be cheaper to borrow from large institution than small retailer (he has to borrow, too, and may be paying a large interest rate, which he will pass along to you).



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Winners view atom power plant model with Westinghouse vice-president Carroll V. Roseberry, right. Left-right they are: Robert J. Sims, Jonnie Flynn McCormac, Elmer L. Claycomb, David Wacker, Robert Langstroth, Barbara Brown.

JUNIOR PARTNERS

Tops from coast-to-coast!

National 4-H Electric Winners

Scholarships of $400 apiece recently were awarded to the six national winners in the 1959 4-H Electric Program. The awards were made at the National 4-H Club Congress in Chicago. Conducted by the Federal Extension Service, the Electric Program is arranged by the National Committee on Boys and Girls Club Work, Inc., and the awards and expense-paid trips to the Congress are provided by the Westinghouse Educational Foundation.

Here are the six winners:

Robert J. Sims, 17, of Grand Bay, Alabama, has received eight medals and prizes for his electrical projects in his 7 years of 4-H work. Among his 21 projects are: design and installation of special lighting effects for a school play; construction of a hi-fi preamplifier, 6-station intercom network, and a 20-inch exhaust fan. Robert has been president of his local 4-H club for four years.

Elmer Lee Claycomb, 16, of Colorado Springs, Colorado, has been president of the county 4-H council and has been active in giving demonstrations on correct wiring. Under the proper supervision, Elmer completely wired his family's new home in his spare time. He assisted in installing a new breaker box, circuit and outlet to a clothes dryer. When lightning burned out the motor of the water pump, he installed a lightning arrester to prevent a recurrence.

Barbara Brown, 17, of Homer, Georgia, organized an electrical improvement program in her town. As a result of her work, all of the homes in her community have been improved electrically. Barbara then began on a county-wide electrical program. A "Light Improvement Week" was organized in her county, together with an "Electrical Workshop" which resulted in the construction of 40 lamps and the repair of 20 electrical defects.

Robert Langstroth, 17, of Newton, New Jersey, has recently finished a three-year project. He built a 400-lb. computer system named "ARLIC," which is a complete control center for launching, tracking and guiding missiles as well as recording information received from them. ARLIC consists of over 5000 components, including parts of old radios, television sets, a juke box and an electric sign. He also designed and built a radar demonstration model, an extra-sensory perception device, a power-failure alarm for a freezer, fire detection system for the home, and a portable rocket-launching system.

Jonnie Flynn McCormac, 18, of Dillon, South Carolina, was president of the student body during her junior and senior years at school. One of her earliest electrical projects was a pin-up reading lamp she built. Since then Jonnie has given many talks and demonstrations on electrical safety before local civic groups. She has also converted drop-cord lighting in her bedroom to modern fixtures with wall switches, and has helped a friend install a 3-way doorbell system in her home. One of Jonnie's most ambitious projects was the construction of a hi-fi set.

David Wacker, 19, of Plymouth, Wisconsin, manages to attend college and at the same time operate a mink ranch. To reduce the time required in caring for the mink, he built his

4-H Electric Program Winners—1959

Alabama	†Robert James Sims	Grand Bay
Alaska	*Mary E. Wallace	Fairbanks
Arkansas	Melba Henley	Rison
California	Larry Welch	Chowchilla
Colorado	†Elmer Lee Claycomb	Colorado Springs
Connecticut	David Rogers	Uncasville
Delaware	Bob Richards	Newark
Florida	Jacky Strickland (Boy)	Gainesville
Georgia	†Barbara Brown	Homer
Hawaii	*Rodney S. Mukai	Honolulu
Idaho	Jerry Howard	Potlatch
Illinois	Howard J. Herrmann	Dunlap
Indiana	LeRoy W. Miller	Brownstown
Iowa	David Eliason	Kanawha
Kansas	Elvon Van Dalsem	Fairview
Kentucky	Phillip Kay Blevins	Monticello
Louisiana	Billy Alsbrooks	Forest
Maine	Donald Starr	Rockland
Maryland	Mary Jane Wharff	Woodbine
Massachusetts	John Riessen	Haverhill
Michigan	Larry Sargent	St. Clair
Minnesota	Bill Kolbe	Anoka
Mississippi	R. Larry Taylor	Jackson
Missouri	Jerry Koch	Columbia
Montana	Bernard Jensen	Dillon
Nebraska	Harry K. Lorenzen, Jr.	West Point
Nevada	Darwin V. Ellis	Minden
New Hampshire	Robert Omand	Strafford
New Jersey	†Robert Langstroth	Newton
New Mexico	Eugene Lee	Portales
New York	Harold Post	Sherburne
North Carolina	Virgil B. Harper	Kinston
North Dakota	Adrian Overton (Boy)	Cando
Ohio	Ronald Bruce Petry	Richmond, *Indiana*
Oklahoma	Ermal Franklin Heath (Boy)	Ryan
Pennsylvania	Chester McQuaide	Millville
Rhode Island	Thomas Noyes	Olneyville
South Carolina	†Jonnie Flynn McCormac (Girl)	Dillon
South Dakota	George Piper	Carpenter
Tennessee	Joyce Ann Bowen	Newbern
Texas	Myrna Perkins	Brownwood
Virginia	Gene Carson	Appomattox
Washington	Ron Sudderth	Hoquiam
West Virginia	Wendell Argabrite	Ona
Wisconsin	†David Wacker	Plymouth
Wyoming	Larry Sims	Evanston
Puerto Rico	*Celestino Padilla Velez (Boy)	Corozal

**Received $100 U. S. Savings Bond instead of trip to Club Congress.*
†National winner.

own watering system with copper tubing from an old freezer. Each pen has an individual water fountain. The system will also spray the mink to keep them from getting overheated during hot weather. Now these chores take minutes instead of hours. He has also helped in rewiring several homes, and has built his own radios, amplifiers and transmitters as well as building his own electric welder. □ □

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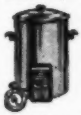

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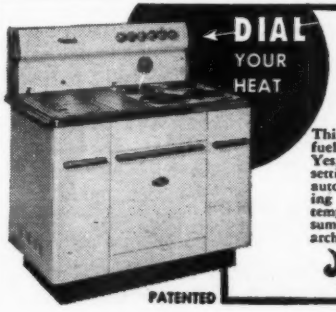

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ADVERTISERS PRODUCT INDEX

Farm Production Equipment & Home Appliances

An index of manufacturers' products which have been advertised in this magazine during the past year. For further information or the name of your nearest dealer, write directly to the manufacturer, mentioning that you obtained his name from Electricity on the Farm Magazine.

NOTE: Complete addresses of all manufacturers listed can be found on pages 32 and 33.

Dairy and Livestock Chore Equipment

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Badger Northland, Inc.
Clay Equipment Corp.
James Manufacturing Co.
New Holland Machine Co.
Patz Company

BRANDING IRON
Automatic Equipment Mfg. Co.

BROODER, LAMB
The Cyclone Mfg. Co.

BROODER, PIG
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The Cyclone Mfg. Co.
Press-Pallet Mfg. Co.

CALF NURSER
K & K Mfg., Inc.

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COW TRAINER
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James Manufacturing Co.

DEHORNER
Sunbeam Corp.

DRINKING CUP, CATTLE
Clay Equipment Corp.
James Mfg. Co.

FAN FOGGER
Fulton Co.

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Automatic Feeding Systems Co.
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Clay Equipment Corp.
James Mfg. Co.
New Holland Machine Co.
P & D Sales Co.
Van Dusen & Co., Inc.
R. M. Wade & Co.

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Lyon Rural Electric Co.

FLY SCREENS & TRAPS, ELECTRIC
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Electro-Lads Mfg. Co.
Insect Electrocutor Co.
Lyon Rural Electric Co.

GROOMER
Sunbeam Corp.

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Chore-Time Equipment, Inc.
Easy-Heat, Inc.
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Edwin L. Wiegand Co.

HEATER, MILKHOUSE
Electromode Div. Commercial Controls Corp.
Lyon Rural Electric Co.
Edwin L. Wiegand Co.

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LAMP, INFRARED
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Sunset Equipment Co.
Zero Corp.

MILK COOLER, CAN
Dairy Equipment Co.
Zero Corp.

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Dairy Equipment Co.
James Mfg. Co.
Sunset Equipment Co.
Zero Corp.

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James Mfg. Co.

MILKING SYSTEM, PIPELINE
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James Mfg. Co.
Sunset Equipment Co.
Zero Corp.

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Fulton Co.
Lyon Rural Electric Co.

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Chore-Time Equipment, Inc.
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Fulton Co.
James Mfg. Co.
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Fulton Co.

EGG GRADER
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Burrows Equipment Co.
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Red Jacket Mfg. Co.
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LAMP BULB, LIGHTING OR PRODUCTIVE
Westinghouse Electric Corp.

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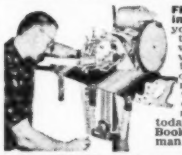

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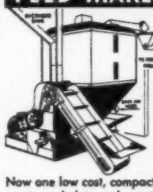

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Red Jacket Mfg. Co.
The Tait Mfg. Co.

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Listed in WHERE TO BUY SECTION

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A

Acorn Barn Equipment
Stevens Point, Wisc.

Aerovent Fan & Equipment, Inc.
P.O. Box 9007, Lansing, Mich.

Alabama Mfg. Co.
1201 Third Ave., N.—P.O. Box 2405
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Automatic Equipment Mfg. Co.
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Automatic Feeding Systems Co., Div. of A. R. Wood Mfg. Co.
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B

Babson Bros. Co.
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Chicago 23, Ill.

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L. H. Bailey & Sons
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Barnes Manufacturing Co.,
651 North Main St., Mansfield, Ohio

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Belle City Engineering Co.,
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Hayward, Wisc.

John Brooks, Inc.,
Box 212, Dept. 76, St. Louis 66, Mo.

Buckeye Incubator Co.,
Euclid Ave., Springfield 99, Ohio

Burrows Equipment Co.,
1316 Sherman Ave., Evanston, Ill.

C

The Campbell-Hausfeld Co.,
271 Railroad Ave., Harrison, Ohio

Chore-Time Equip., Inc.,
Milford, Ind.

Clay Equipment Corp.,
Cedar Falls, Iowa

Clayton Mark & Co.,
1900 Dempster St.
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Columbiana Pump Co.,
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The Cyclone Mfg. Co.
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D

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Decatur, Ill.

Dempster Mill Mfg. Co.,
Beatrice, Nebr.

Detjen Corp., Electrocuting Fly Screen Div.
Pleasant Valley, N. Y.

E

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Lakeville, Ind.

Edwards Co., Inc.,
Post Rd.
Norwalk, Conn.

Electric Service Systems, Inc.
1330 Quincy St. N.E.
Minneapolis 13, Minn.

Electric Soldering Iron Co., Inc.
Deep River, Conn.

Electro-Lads Mfg. Co.
Box 2262, Dearborn, Mich.

Electromode Div., Commercial Controls Corp.,
P.O. Box 1052, Rochester 3, N. Y.

Electronic Specialties Co., Inc.,
1 Island Ave., Batavia, Ill.

Everpure Inc.,
2627 West 19th St., Chicago 8, Ill.

F

Fairbanks, Morse & Co.,
600 So. Michigan Ave., Chicago 5, Ill.

Fairfield Engr. & Mfg. Co.
Fairfield, Iowa

Farm Fans Div of. Ewing Foundry Inc.,
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Indianapolis, Ind.

Flint & Walling Mfg. Co., Inc.
95 N. Oak St., Kendallville, Ind.

Foley Mfg. Co.,
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Minneapolis 18, Minn.

One of the SURE ways to impress your wife is to do something for her that you CAN'T afford. . . . . EVERSTOPTOTHINK?—A SMILE goes a long, long way sometimes—when it would do a LOT more good at HOME! . . . . GOSSIP: a person who puts two and two together—EVEN if they're NOT. . . . . Then there was the prisoner who said to his fellow inmate: "I was making BIG money—about a quarter inch TOO long." . . . . WINDOW SHOPPER: STORE gazer. . . . . Isn't it ironic that the TWO most broadening things are traveling in wide circles and sitting in one spot. . . . . SODDEN THOUGHT: Do you REMEMBER when it was MORE expensive to hire a taxi than park your car? . . . . Have you heard the story about the fellow who was a SHEAR leader at a barber college—but they threw him out for cutting a class??? . . . . Auto mechanic to driver, "Your OIL is okay, but your ENGINE could stand changing." . . . . JINGLE-JOLLY DEPT.: TITLE—THE BLONDE'S LAMENT: "The rain is falling, falling, On every bush and tree; It BEAUTIFIES Dame Nature—But it SURE makes a wreck out of me." . . . . REFORMER'S MOTTO: NO thyself. . . . . BIGAMIST: an OPTIMIST who is willing to take two chances. . . . . One SURE sign of inflation is that nobody says "Thanks a MILLION!" any more. Now, it's "Thanks a BILLION!" . . . . Know how to cure a DOUBTING THOMAS?—Sprinkle liberally with ANTI-SKEPTIC powder. . . . . John Walters of Mandan, N. Dak. postcards us this gem: An ANTIQUE is a fugitive from the junkyard with a price on its head. . . . . FLIP QUIP: Many a wife has turned an old RAKE into a LAWNMOWER. . . . . The honeymoon is over when HE suggests that she pay more attention to the frying pan and less to her own. . . . . Friend of ours sez he hates to hunt for collar buttons. Sez it gives him the creeps. . . . . PARTING THOUGHT: About the ONLY way to get more for your money these days is with more OF your money. . . . .

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G

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H

Hamilton Beach Co., Div. of Scovill Mfg. Co.,
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I

Insect Electrocutor Co.,
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Cincinnati 38, Ohio

J

James Mfg. Co.,
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Fort Atkinson, Wis.

Jensen Bros. Mfg. Co., Inc.,
14th and Pacific St.,
Coffeyville, Kansas

K

K & K Mfg. Inc.
1001 Washington Ave. So.
Minneapolis 15, Minn.

Kelvinator Div., American Motors Corp.,
14250 Plymouth Rd., Detroit 32, Mich.

L

Labawco Pumps, Inc.
Belle Mead, N. J.

L M L Engr. & Mfg. Corp.
607-617 S. Chauncey St.
Columbia City, Ind.

Lyon Rural Electric Co.
2075 Moore St., P.O. Box 30
San Diego 12, Calif.

M

A. Y. McDonald Mfg. Co.,
12th & Pine Sts., Dubuque, Iowa

Mechanical Products, Inc.
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Jackson, Michigan

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Beaver Dam, Wisc.

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N

Nelson Mfg. Co.
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Northel Distributors,
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Luverne, Minn.

O

D. W. Onan & Sons, Inc.
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P

The Patz Company,
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Phillips Mfg. Co.
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Press-Pallet Mfg. Co.
5424 N. Keystone
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R

Radson Engineering Corp.
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Fort Wayne 1, Ind.

Sunbeam Corp.
5600 Roosevelt Rd., Chicago 50, Ill.

Sunset Equipment Co.,
P.O. Box 3536Y, St. Paul 1, Minn.

T

The Tait Mfg. Co.,
500 Webster St., Dayton 4, Ohio

Tech Products Inc.
6th & Trumbull Sts.
Elizabeth, N. J.

V

Van Dusen & Co., Inc.
Rt. 2, Box 205
Wayzata, Minn.

W

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1919 N. W. Thurman St.,
Portland 9, Ore.

Waters Conley Co., Inc.,
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Westinghouse Elec. Corp.,
246 East 4th St., Mansfield, Ohio

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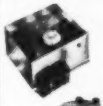

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in this issue . . .

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Van Dusen & Co., Inc., Wayzata, Minn.

Yes, I know Pop! When you were my age you were milking 20 cows about this time. But you didn't have a Pop as smart as mine!

Irrigation pump powered by 3 hp electric motor delivers water from 4-inch well to flood-irrigate 100 acres of Irish potatoes. Rows in background extend 640 feet from main irrigation ditch; on other side of ditch they run 800 feet. Wright finds operating cost runs about 3 KWHrs per hour.

Irrigation Pump Quenches Thirst for 100 Acres of Irish Potatoes

A 3 hp pump is the heart of a flood-type irrigation system which provides water aplenty for 100 acres of Irish potatoes on R. R. Wright's farm at East Palatka, Florida.

Irrigates 100 Acres in 3 Days

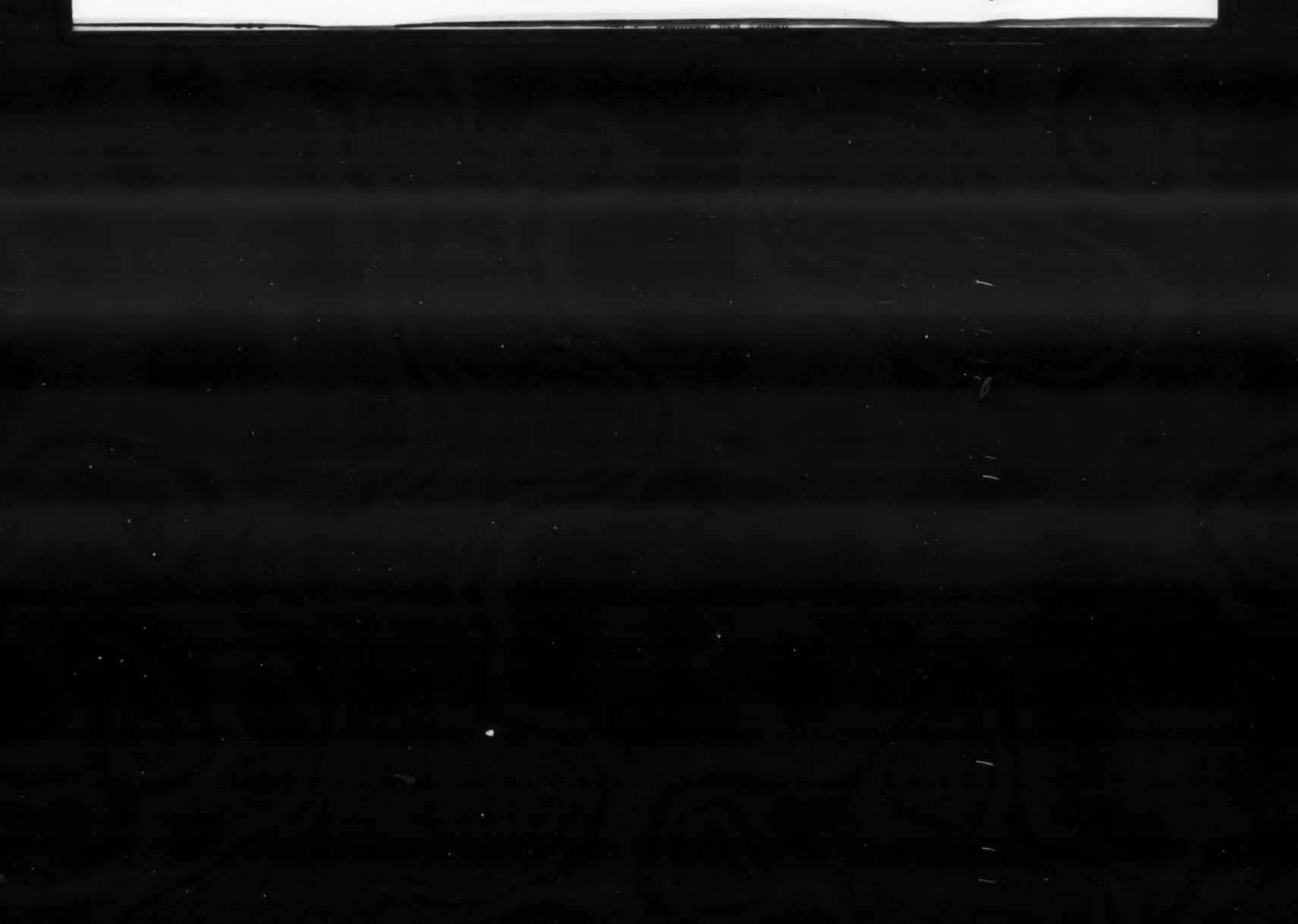
The electrically-driven pump delivers water from a 4-inch well at a rate that enables Wright to irrigate the entire 100 acres in a period of 72 hours. Cost of operation is only 3 KWHrs of electricity per hour. He gets enough water on the crop to last 10 days.

In his system, water is pumped into a ditch that extends ¾ mile through the center of the 100-acre tract. Rows run perpendicular to the ditch, extending 800 feet on one side and 640 feet on the other. The land is graded to give the rows a very slight fall.

Water from the main irrigation ditch is released into the fields at 24-row intervals through pipes. Rows are broken to allow water to flow into all of the furrows and permit a thorough wetting.

Electric Pump Is Attention-Free

Prior to getting his electric pump, Wright says he used an 8 hp gasoline unit. Big disadvantage of it, he recalls, was the attention required to keep it operating. With the electric pump which he has had for four years, he just turns it on and lets it run as long as needed. □ □



In the Forefront of Fashion

4509—Stunning three-piece suit. The box jacket can be worn alone as a topper. Printed Pattern in Misses' Sizes 10-18. Size 16 jacket takes 1¾ yards 54-inch; skirt 1½ yards; blouse 1½ yards 35-inch.

9111—Graceful sheath topped by wide, notched collar. Printed Pattern in Half Sizes 14½-24½. Size 16½ takes 3⅞ yards 35-inch fabric.

4520—Princess dress for your little princess with tiny bolero for cover. Printed Pattern in Child's Sizes 2, 4, 6, 8, 10. Size 6 dress takes 1¾ yards 35-inch fabric; bolero ¾ yard.

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